

WHAT IS CLAIMED IS:

Sub A1 1. A document information communicating system comprising: a sending apparatus for sending document information which is divided into a plurality of pages; and a receiving apparatus for receiving said document information and displaying said received document information,

said sending apparatus comprising a sending device for repeatedly sending said plurality of pages of said document information,

said receiving apparatus comprising:

a selecting device for selecting at least one page from said plurality of pages of the document information;

a receiving device for receiving said selected page of said document information;

a display device having a display panel which allows a whole of one page of said document information to be displayed thereon at a time; and

a display control device for displaying said document information received by said receiving device on said display panel.

Sub B15 2. A document information communicating system according to Claim 1, wherein said sending apparatus sends said document information formed by a plurality of characters, and said sending apparatus comprises:

a dividing device for dividing each page of said document information into a plurality of blocks, the number of said characters

included in each block being not more than the number of said characters included in one line of each page of said document information; and

a sending device for sending said plurality of blocks.

3. A document information communicating system according to Claim 1, wherein said sending apparatus sends said document information formed by bitmap data, and said sending apparatus comprises:

a dividing device for dividing each page of said document information into a plurality of blocks, the amount of said bitmap data included in each block being integral number times as much as the amount of said bitmap data included in one line element of each page of said document information; and

a sending device for sending said plurality of blocks.

4. A document information communicating system according to Claim 1, wherein said sending apparatus comprises:

a dividing device for dividing each page of said document information into a plurality of blocks;

a sending device for sending said plurality of blocks; and

a sending control device for controlling said sending device so as to repeatedly send a different block included in a specific page, changing said specific page each time said one block is sent.

5. A document information communicating system according to

Claim 1, wherein said sending apparatus comprises:

a dividing device for dividing each page of said document information into a plurality of blocks; and

a sending device for sending said plurality of blocks in discontinuous order.

6. A document information communicating system according to Claim 1, wherein, if said document information is formed by a plurality of characters, said sending apparatus sends said plurality of characters in discontinuous order.

7. A document information communicating system according to Claim 1, wherein said display control device comprises a memory device having a minimum memory capacity enough to store one page of said document information and additional information necessary for displaying said document information on said display panel.

8. A document information communicating system according to Claim 1, wherein a size of said display panel corresponds to a size of one page of said document information.

9. A document information communicating system according to Claim 1, wherein said receiving apparatus further comprises:

an error determining device for determining whether or not said document information received by said receiving device includes an error; and

a reception control device for controlling said receiving device so as to repeatedly receive said selected page of said document information, if said error determining device determines that said document information received by said receiving device includes an error.

10. A document information communicating system according to Claim 1, wherein said receiving apparatus further comprises a converting device for converting said document information formed by a plurality of characters into said document information formed by bitmap data.

11. A document information communicating system according to Claim 1, wherein said receiving apparatus further comprises a power control device for powering down said receiving device after reception of said document information, and periodically powering up said receiving device to check whether or not said document information sent from said sending apparatus is changed.

12. A document information communicating system according to Claim 1, wherein said sending apparatus further comprises a document information removing device for sending insignificant data to said receiving apparatus in order to remove said document information that was previously sent to said receiving apparatus.

13. A document information communicating system according to

Claim 12, wherein said insignificant data is a group of blank data.

14. A document information communicating system according to Claim 1, wherein said receiving apparatus further comprises:

a communication determining device for determining whether or not maintaining communication between said sending apparatus and said receiving apparatus is possible; and

a removing device for removing said document information that was previously received from said sending apparatus, unless said communication determining device determines that maintaining said communication is possible.

15 A document information communicating system according to Claim 14, wherein said communication determining device determines whether or not intensity of a communication signal which carries said document information from said sending apparatus to said receiving apparatus is more than a predetermined intensity.

16. A document information communicating system comprising: a sending apparatus for sending document information which has a plurality of display forms; and a receiving apparatus for receiving said document information and displaying said received document information on a display panel,

said sending apparatus comprising a sending device for repeatedly sending said document information in said plurality of display forms, changing said display form one after another,

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said receiving apparatus comprising:

a selecting device for selecting one display form from said plurality of display forms;

a receiving device for receiving said document information having said selected display form; and

a display control device for displaying said received document information on said display panel.

17. A document information communicating system according to Claim 16, wherein said sending device repeatedly sends said document information, changing a scale of characters and images included in said document information.

18. A document information communicating system according to Claim 16, wherein said sending device repeatedly sends said document information, changing a direction of an arrangement of characters included in said document information.

19. A document information communicating system according to Claim 16, wherein said sending device repeatedly sends said document information, changing density of characters included in each page of said document information.

20. A document information communicating system according to Claim 16, wherein said sending device repeatedly sends said document information, changing page size of said document information.

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21. A document information communicating system according to Claim 1, wherein said sending device comprises:

a communication signal generating device for generating a communication signal including said document information;

a spreading device for spreading said communication signal by using a spreading sequence; and

a communication signal sending device for sending said spread communication signal, and

said receiving device comprises:

a communication signal receiving device for receiving said spread communication signal;

an inputting device for inputting a password;

a spreading sequence generating device for generating said spreading sequence by using said input password;

a despreading device for despreading said received communication signal by using said spreading sequence generated by said spreading sequence generating device; and

a extracting device for extracting said document information from said despread communication signal.

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22. A document information sending apparatus for sending two types of document information: document information being formed by a plurality of characters and document information being formed by bitmap data, each type of said document information being divided into a plurality of pages, said document information sending apparatus

comprising:

a first dividing device for dividing each page of said document information formed by said plurality of characters into a plurality of blocks, the number of said characters included in each block being not more than the number of said characters included in one line of each page of said document information;

a second dividing device for dividing each page of said document information formed by said bitmap data into a plurality of blocks, the amount of said bitmap data included in each block being integral number times as much as the amount of said bitmap data included in one line element of each page of said document information; and

a sending device for sending said plurality of blocks.

23. A document information sending apparatus for sending document information which is divided into a plurality of pages, said document information sending apparatus comprising:

a dividing device for dividing each page of said document information into a plurality of blocks; and

a sending device for sending said plurality of blocks in discontinuous order.

24. A document information sending apparatus for sending document information which is divided into a plurality of pages, said document information sending apparatus comprising:

a dividing device for dividing each page of said document



information into a plurality of blocks;

a sending device for sending said plurality of blocks; and

a sending control device for controlling said sending device so as to repeatedly send a different block included in a specific page, changing said specific page each time one block is sent.

25. A document information receiving apparatus for receiving document information which is divided into a plurality of pages and displaying said received document information, said document information receiving apparatus comprising:

a receiving device for receiving one page of said document information;

a display device having a display panel, a size of said display panel corresponding to a size of one page of said document information; and

a display control device for displaying said received one page of said document information on said display panel.

26. A document information receiving apparatus according to Claim 25, wherein said display control device comprises a memory device having a minimum memory capacity enough to store one page of said document information and additional information necessary for displaying said one page of said document information on said display panel.

27. A document information receiving apparatus according to Claim

25, further comprising a power control device for powering down said receiving device after reception of said document information, and periodically powering up said receiving device to check whether or not said document information sent from said sending apparatus is changed.

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